

WHAT IS CLAIMED IS:

1. An optical glass having a refractive index (nd) of 1.57 to 1.67, an Abbe's number (vd) of 55 to 65 and a glass transition temperature (Tg) of 560°C or lower and having a haze value of 3 % or less in terms of climate resistance.
2. An optical glass having a refractive index (nd) of 1.57 to 1.67 and an Abbe's number (vd) of 55 to 65 and having a haze value of 3 % or less in terms of climate resistance, the optical glass being for use in precision press-molding.
3. An optical glass comprising  $B_2O_3$ ,  $SiO_2$ ,  $Li_2O$ ,  $CaO$ ,  $ZnO$  and  $La_2O_3$ , having a refractive index (nd) of 1.57 to 1.67, an Abbe's number (vd) of 55 to 65 and a glass transition temperature (Tg) of 560°C or lower and having a haze value of 3 % or less in terms of climate resistance.
4. An optical glass comprising, by mol%, 22 to 40 % of  $B_2O_3$ , 12 to 40 % of  $SiO_2$ , 2 to 20 % of  $Li_2O$ , 5 to 15 % of  $CaO$ , 2 to 14 % of  $ZnO$ , 0.5 to 4 % of  $La_2O_3$ , 0 to 3 % of  $Gd_2O_3$ , 0 to 3 % of  $Y_2O_3$ , the total content of  $La_2O_3$ ,  $Gd_2O_3$  and  $Y_2O_3$  being at least 1 %, 0 to 5 % of  $Al_2O_3$ , 0 to 3 % of  $ZrO_2$  and 0 to 5 % of  $BaO$ , the total content of the above components being more than 96 %, and having a refractive index (nd) of 1.57 to 1.67 and an Abbe's number (vd) of 55 to 65.
5. A press-molding preform, which is made of the optical glass recited in any one of claims 1 to 4.
6. An optical element made of the optical glass recited in any one of claims 1 to 4.
7. A process for producing a preform for press-molding, which comprises separating a predetermined amount

of a molten glass gob from a molten glass flow of the optical glass recited in any one of claims 1 to 4, and forming the gob into a glass preform.

5    8.        A process for producing an optical element, which comprises heating, softening and press-molding the preform recited in claim 5.

10   9.        A process for producing an optical element, which comprises heating, softening and press-molding a preform obtained by the process recited in claim 7.